

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P567638

Luminaire Tested: **8SNX-186HL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-186HL-FDL-UNV-L930-CD  
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

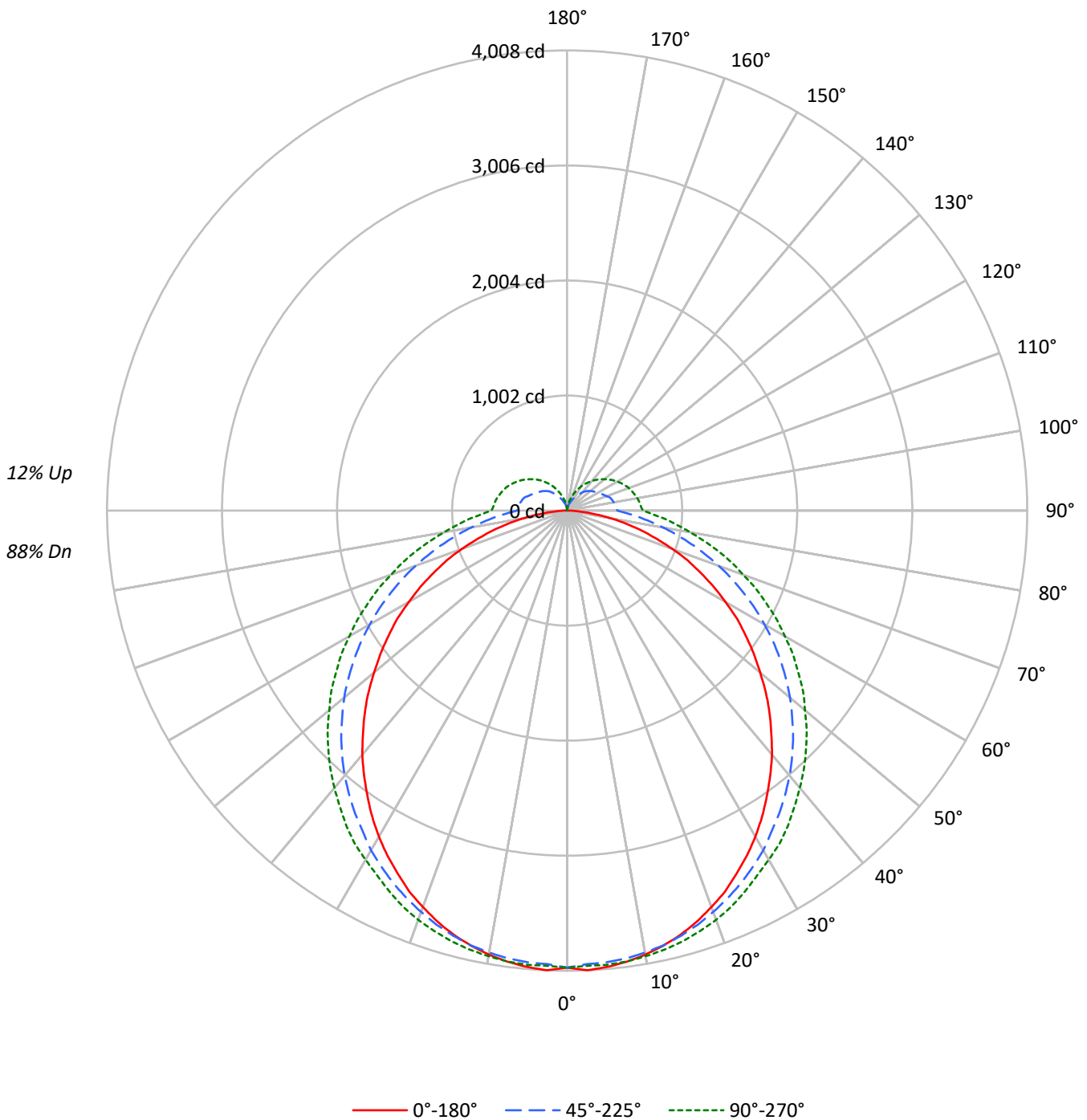
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14331.0 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Semi-Direct  
  
Input Watts (W): 134.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |    | 20 |    |    |    | 20 |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |    | 30 |    |    |    | 10 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
| 0   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 91 | 91 | 91 | 88 |
| 1   | 105 | 99  | 95  | 90  | 101 | 96  | 92  | 88  | 89  | 86  | 83  | 84 | 81 | 78 | 78 | 76 | 74 | 71 |
| 2   | 95  | 86  | 79  | 72  | 91  | 83  | 76  | 71  | 77  | 72  | 67  | 72 | 68 | 64 | 68 | 64 | 61 | 58 |
| 3   | 86  | 75  | 66  | 60  | 82  | 72  | 65  | 58  | 68  | 61  | 56  | 63 | 58 | 53 | 59 | 55 | 51 | 48 |
| 4   | 78  | 66  | 57  | 50  | 75  | 64  | 56  | 49  | 60  | 53  | 47  | 56 | 50 | 45 | 53 | 48 | 43 | 41 |
| 5   | 72  | 59  | 50  | 43  | 69  | 57  | 48  | 42  | 54  | 46  | 41  | 50 | 44 | 39 | 47 | 42 | 38 | 35 |
| 6   | 66  | 53  | 44  | 37  | 64  | 51  | 43  | 37  | 48  | 41  | 35  | 45 | 39 | 34 | 43 | 37 | 33 | 31 |
| 7   | 61  | 48  | 39  | 33  | 59  | 46  | 38  | 32  | 44  | 36  | 31  | 41 | 35 | 30 | 39 | 33 | 29 | 27 |
| 8   | 57  | 43  | 35  | 29  | 55  | 42  | 34  | 29  | 40  | 33  | 28  | 38 | 31 | 27 | 36 | 30 | 26 | 24 |
| 9   | 53  | 40  | 32  | 26  | 51  | 39  | 31  | 26  | 37  | 30  | 25  | 35 | 29 | 24 | 33 | 27 | 23 | 21 |
| 10  | 50  | 37  | 29  | 23  | 48  | 36  | 28  | 23  | 34  | 27  | 22  | 32 | 26 | 22 | 31 | 25 | 21 | 19 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 21423 | 21423 | 21423 |
| 5°  | 21548 | 21108 | 21144 |
| 10° | 21439 | 20917 | 20924 |
| 15° | 21274 | 20685 | 20721 |
| 20° | 21001 | 20406 | 20487 |
| 25° | 20673 | 20122 | 20176 |
| 30° | 20315 | 19838 | 19909 |
| 35° | 19857 | 19496 | 19723 |
| 40° | 19416 | 19214 | 19438 |
| 45° | 18880 | 18887 | 19197 |
| 50° | 18257 | 18541 | 18892 |
| 55° | 17668 | 18111 | 18619 |
| 60° | 16990 | 17654 | 18285 |
| 65° | 16165 | 17131 | 17958 |
| 70° | 15115 | 16560 | 17588 |
| 75° | 13616 | 15939 | 17461 |
| 80° | 11524 | 15579 | 17322 |
| 85° | 8579  | 15983 | 18257 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 377.9   | 2.6       |
| 10°-20°   | 1087.0  | 7.6       |
| 20°-30°   | 1653.7  | 11.5      |
| 30°-40°   | 2010.7  | 14.0      |
| 40°-50°   | 2127.3  | 14.8      |
| 50°-60°   | 1994.1  | 13.9      |
| 60°-70°   | 1640.5  | 11.4      |
| 70°-80°   | 1135.1  | 7.9       |
| 80°-90°   | 631.2   | 4.4       |
| 90°-100°  | 415.8   | 2.9       |
| 100°-110° | 372.9   | 2.6       |
| 110°-120° | 308.6   | 2.2       |
| 120°-130° | 238.6   | 1.7       |
| 130°-140° | 168.9   | 1.2       |
| 140°-150° | 101.9   | 0.7       |
| 150°-160° | 48.9    | 0.3       |
| 160°-170° | 16.0    | 0.1       |
| 170°-180° | 2.0     | 0.0       |
| 0°-30°    | 3118.6  | 21.8      |
| 0°-40°    | 5129.4  | 35.8      |
| 0°-60°    | 9250.7  | 64.6      |
| 0°-90°    | 12657.4 | 88.3      |
| 90°-120°  | 1097.3  | 7.7       |
| 90°-150°  | 1606.7  | 11.2      |
| 90°-180°  | 1674.0  | 11.7      |
| 0°-180°   | 14331.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3981 | 3981  | 3981 | 3981  | 3981 |      |
| 5°   | 3990 | 3983  | 3949 | 3981  | 3971 | 379  |
| 15°  | 3824 | 3836  | 3833 | 3885  | 3885 | 1078 |
| 25°  | 3490 | 3539  | 3581 | 3659  | 3662 | 1609 |
| 35°  | 3033 | 3114  | 3220 | 3323  | 3352 | 1898 |
| 45°  | 2493 | 2624  | 2783 | 2908  | 2942 | 1922 |
| 55°  | 1897 | 2066  | 2265 | 2408  | 2457 | 1698 |
| 65°  | 1284 | 1468  | 1696 | 1863  | 1914 | 1273 |
| 75°  | 668  | 861   | 1114 | 1291  | 1362 | 708  |
| 85°  | 147  | 366   | 618  | 790   | 859  | 169  |
| 90°  | 2    | 206   | 437  | 601   | 660  | 10   |
| 95°  | 2    | 196   | 425  | 582   | 638  | 2    |
| 105° | 2    | 169   | 398  | 547   | 596  | 3    |
| 115° | 5    | 147   | 336  | 486   | 540  | 4    |
| 125° | 5    | 125   | 287  | 415   | 466  | 4    |
| 135° | 5    | 98    | 240  | 341   | 383  | 4    |
| 145° | 5    | 71    | 167  | 258   | 290  | 3    |
| 155° | 7    | 49    | 103  | 164   | 191  | 3    |
| 165° | 7    | 32    | 56   | 76    | 98   | 2    |
| 175° | 7    | 12    | 17   | 17    | 10   | 1    |
| 180° | 5    | 5     | 5    | 5     | 5    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3980.6 | 3980.6 | 3980.6 | 3980.6 | 3980.6 |
| 2.5°   | 4007.6 | 3995.3 | 3953.6 | 3980.6 | 3968.3 |
| 5°     | 3990.4 | 3983.1 | 3948.7 | 3980.6 | 3970.8 |
| 7.5°   | 3963.4 | 3961.0 | 3934.0 | 3970.8 | 3961.0 |
| 10°    | 3926.6 | 3931.5 | 3909.4 | 3948.7 | 3941.3 |
| 12.5°  | 3880.0 | 3887.3 | 3877.5 | 3921.7 | 3916.8 |
| 15°    | 3823.5 | 3835.8 | 3833.3 | 3884.9 | 3884.9 |
| 17.5°  | 3754.8 | 3772.0 | 3781.8 | 3840.7 | 3840.7 |
| 20°    | 3673.8 | 3700.8 | 3720.5 | 3784.3 | 3794.1 |
| 22.5°  | 3592.8 | 3624.7 | 3654.2 | 3720.5 | 3735.2 |
| 25°    | 3489.8 | 3538.9 | 3580.6 | 3659.1 | 3661.6 |
| 27.5°  | 3389.2 | 3443.1 | 3499.6 | 3575.7 | 3583.0 |
| 30°    | 3278.7 | 3347.4 | 3416.1 | 3489.8 | 3511.9 |
| 32.5°  | 3160.9 | 3237.0 | 3313.1 | 3411.2 | 3440.7 |
| 35°    | 3033.3 | 3114.3 | 3219.8 | 3322.9 | 3352.3 |
| 37.5°  | 2905.7 | 2996.5 | 3119.2 | 3224.7 | 3251.7 |
| 40°    | 2775.6 | 2876.2 | 3013.7 | 3121.7 | 3153.6 |
| 42.5°  | 2630.8 | 2753.5 | 2900.8 | 3016.1 | 3052.9 |
| 45°    | 2493.4 | 2623.5 | 2783.0 | 2908.1 | 2942.5 |
| 47.5°  | 2348.6 | 2486.0 | 2657.8 | 2790.3 | 2829.6 |
| 50°    | 2194.0 | 2351.1 | 2535.1 | 2667.6 | 2704.5 |
| 52.5°  | 2049.2 | 2208.7 | 2402.6 | 2540.0 | 2591.6 |
| 55°    | 1897.0 | 2066.4 | 2265.2 | 2407.5 | 2456.6 |
| 57.5°  | 1754.7 | 1916.7 | 2130.2 | 2272.5 | 2333.9 |
| 60°    | 1592.7 | 1771.9 | 1985.4 | 2140.0 | 2189.1 |
| 62.5°  | 1440.6 | 1622.2 | 1843.1 | 2002.6 | 2059.0 |
| 65°    | 1283.5 | 1467.6 | 1695.8 | 1862.7 | 1914.2 |
| 67.5°  | 1136.3 | 1317.9 | 1551.0 | 1715.4 | 1781.7 |
| 70°    | 974.3  | 1165.7 | 1403.8 | 1573.1 | 1629.5 |
| 72.5°  | 814.8  | 1013.6 | 1256.5 | 1438.1 | 1501.9 |
| 75°    | 667.5  | 861.4  | 1114.2 | 1290.9 | 1362.0 |
| 77.5°  | 525.2  | 721.5  | 976.7  | 1158.3 | 1219.7 |
| 80°    | 382.8  | 589.0  | 849.1  | 1028.3 | 1087.2 |
| 82.5°  | 252.8  | 468.7  | 726.4  | 905.6  | 969.4  |
| 85°    | 147.2  | 365.7  | 618.4  | 790.2  | 858.9  |
| 87.5°  | 63.8   | 277.3  | 517.8  | 687.2  | 743.6  |
| 90°    | 2.5    | 206.1  | 436.8  | 601.3  | 660.2  |
| 92.5°  | 2.5    | 201.2  | 427.0  | 589.0  | 645.4  |
| 95°    | 2.5    | 196.3  | 424.6  | 581.6  | 638.1  |
| 97.5°  | 2.5    | 193.9  | 419.7  | 576.7  | 630.7  |
| 100°   | 2.5    | 186.5  | 412.3  | 566.9  | 620.9  |
| 102.5° | 2.5    | 176.7  | 404.9  | 557.1  | 608.6  |
| 105°   | 2.5    | 169.3  | 397.6  | 547.3  | 596.4  |
| 107.5° | 2.5    | 162.0  | 385.3  | 535.0  | 584.1  |
| 110°   | 2.5    | 154.6  | 365.7  | 522.7  | 571.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.5 | 152.2 | 350.9 | 505.6 | 557.1 |
| 115°   | 4.9 | 147.2 | 336.2 | 485.9 | 539.9 |
| 117.5° | 4.9 | 144.8 | 323.9 | 466.3 | 522.7 |
| 120°   | 4.9 | 137.4 | 311.7 | 449.1 | 503.1 |
| 122.5° | 4.9 | 130.1 | 299.4 | 431.9 | 485.9 |
| 125°   | 4.9 | 125.2 | 287.1 | 414.7 | 466.3 |
| 127.5° | 4.9 | 117.8 | 277.3 | 397.6 | 444.2 |
| 130°   | 4.9 | 112.9 | 265.0 | 377.9 | 424.6 |
| 132.5° | 4.9 | 105.5 | 252.8 | 358.3 | 402.5 |
| 135°   | 4.9 | 98.2  | 240.5 | 341.1 | 382.8 |
| 137.5° | 4.9 | 88.3  | 225.8 | 321.5 | 360.8 |
| 140°   | 4.9 | 81.0  | 206.1 | 301.9 | 338.7 |
| 142.5° | 4.9 | 76.1  | 186.5 | 279.8 | 314.1 |
| 145°   | 4.9 | 71.2  | 166.9 | 257.7 | 289.6 |
| 147.5° | 4.9 | 66.3  | 149.7 | 235.6 | 265.0 |
| 150°   | 4.9 | 58.9  | 132.5 | 216.0 | 240.5 |
| 152.5° | 7.4 | 54.0  | 117.8 | 191.4 | 216.0 |
| 155°   | 7.4 | 49.1  | 103.1 | 164.4 | 191.4 |
| 157.5° | 7.4 | 44.2  | 88.3  | 137.4 | 166.9 |
| 160°   | 7.4 | 39.3  | 76.1  | 112.9 | 142.3 |
| 162.5° | 7.4 | 36.8  | 66.3  | 93.3  | 120.3 |
| 165°   | 7.4 | 31.9  | 56.4  | 76.1  | 98.2  |
| 167.5° | 7.4 | 24.5  | 46.6  | 58.9  | 81.0  |
| 170°   | 7.4 | 19.6  | 36.8  | 41.7  | 61.4  |
| 172.5° | 7.4 | 14.7  | 27.0  | 29.4  | 31.9  |
| 175°   | 7.4 | 12.3  | 17.2  | 17.2  | 9.8   |
| 177.5° | 7.4 | 9.8   | 9.8   | 9.8   | 4.9   |
| 180°   | 4.9 | 4.9   | 4.9   | 4.9   | 4.9   |

(END OF REPORT)